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|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 09/599,812 | MURRAY ET AL. | |
| | Examiner | Art Unit | |
| | Qamrun Nahar | 2124 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 5/3/04.
2. ☒ The allowed claim(s) is/are 9-45.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☒ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 4/6/04, 4/29/04 | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

1. This action is in response to the amendment filed on 5/3/04.
2. The rejection under 35 U.S.C. 102(b) as being anticipated by Smale (U.S. 5,764,985) to claims 9 and 11 is withdrawn in view of applicant's amendments and remarks/arguments.
3. The rejection under 35 U.S.C. 103(a) as being unpatentable over Smale (U.S. 5,764,985) in view of Donohue (U.S. 6,199,204) to claims 1 and 8 is moot in view of cancellation of the claims, see the Examiner's Amendment below.
4. The rejection under 35 U.S.C. 103(a) as being unpatentable over Smale (U.S. 5,764,985) in view of Donohue (U.S. 6,199,204) to claims 18, 25, 40 and 42 is withdrawn in view of applicant's amendments and remarks/arguments.
5. The rejection under 35 U.S.C. 103(a) as being unpatentable over Smale (U.S. 5,764,985) in view of Cheng (U.S. 6,421,656) to claims 10, 12-17 and 26-39 is withdrawn in view of applicant's amendments and remarks/arguments.
6. The rejection under 35 U.S.C. 103(a) as being unpatentable over Smale (U.S. 5,764,985) in view of Donohue (U.S. 6,199,204), and further in view of Cheng (U.S. 6,421,656) to claims 2-7 is moot in view of cancellation of the claims, see the Examiner's Amendment below.
7. The rejection under 35 U.S.C. 103(a) as being unpatentable over Smale (U.S. 5,764,985) in view of Donohue (U.S. 6,199,204), and further in view of Cheng (U.S. 6,421,656) to claims 19-24 and 41 is withdrawn in view of applicant's amendments and remarks/arguments.
8. Claims 1-26, 33 and 40 have been amended.
9. Claims 43-45 have been added.
10. Claims 1-8 have been cancelled, see the Examiner's Amendment below.
11. Claims 9-45 are pending.

12. Claims 9-45 are allowed.

Oath/Declaration

13. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not state that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR **1.56**.

That is, 37 CFR **1.56** has to be stated in the oath or declaration, not only part of it.

14. Applicant is now required to submit a substitute declaration or oath to correct the deficiencies set forth in this communication. The substitute oath or declaration must be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability" (PTO-37). Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136. Failure to timely file the substitute declaration (or oath) will result in **ABANDONMENT** of the application. The transmittal letter accompanying the declaration (or oath) should indicate the date of the "Notice of Allowance" (PTOL-85) and the application number in the upper right hand corner.

EXAMINER'S AMENDMENT

15. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

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1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Damon A. Rieth (Reg. No. 52,167) on July 20, 2004.

The application has been amended as follows:

In the Claims:

Claims 1-8. (Cancelled)

Claim 9 (Currently Amended)

A computer-readable medium embodying computer executable code that implements a software architecture, the architecture comprising:

a hub structure configured to:

receive multiple different files that describe extensions that can be added to a software platform;

combine the multiple different files into a single exposable list; and

expose the single exposable list to a filter structure comprising one or more attachment points configured to filter the list, each attachment point including logic for filtering.

Claim 12 (Currently Amended)

A computer-readable medium embodying computer executable code that implements a software architecture, the architecture comprising multiple different attachment points each of which includes logic making the attachment point operable to:

receive XML data that pertains to one or more software extensions that can be added to a software platform;

process the XML data to provide a list of XML nodes; and

expose the list of XML nodes.

Claim 18 (Currently Amended)

A computer-readable medium embodying computer executable code that implements a software architecture, the architecture comprising:

a hub structure configured to:

receive multiple different files that describe software extensions that can be added to a software platform;

combine the multiple different files into a single exposable list; and

expose the single exposable list to a filter structure that is configured to filter the list,

the filter structure comprising multiple attachment points collectively arranged to filter data associated with the list exposed by the hub structure, each attachment point including logic for filtering data; and

multiple extension managers associated with the multiple attachment points and with respective feature types that can be added to a software platform by software extensions, the

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extension managers being configured to receive data from the multiple attachment points that pertains only to the feature type with which the extension manager is associated.

Claim 43 (Currently Amended)

A computer-readable medium embodying computer executable code that implements a software architecture, the architecture comprising:

a collection of attachment points, each attachment point including logic that allows the attachment point to filter data from a list of software extension description files; and

one or more extension managers, each extension manager being associated with a feature types that can be added to a software platform by a software extension, each extension manager being configured to receive only data from the list of software extension description files that pertains to the feature type associated with the extension manager.

Claim 44 (Currently Amended)

A computer-readable medium embodying computer executable code that implements a software architecture, the architecture comprising:

a hub structure configured to:

combine into a single exposable list multiple different files, each file describing an extension that can be added to a software platform; and

filter the single exposable list using a filter structure comprised of multiple objects, each object including logic that allows the object to filter data from the list.

- END -

REASONS FOR ALLOWANCE

16. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, combine the multiple different files into a single exposable list; and expose the single exposable list to a filter structure comprising one or more attachment points configured to filter the list, each attachment point including logic for filtering as substantially recited in independent claims 9, 12, 18, 26, 33, 40 and 43-45.

The closest cited prior arts, the combination of Smale (U.S. 5,764,985), Donohue (U.S. 6,199,204), and Cheng (U.S. 6,421,656) teaches a method of receiving multiple different files that describe extensions that can be added to a software platform as substantially recited in claims 9, 12, 18, 26, 33, 40 and 43-45. However, the combination of Smale (U.S. 5,764,985), Donohue (U.S. 6,199,204), and Cheng (U.S. 6,421,656) fails to teach to combine the multiple different files into a single exposable list; and expose the single exposable list to a filter structure comprising one or more attachment points configured to filter the list, each attachment point including logic for filtering as substantially recited in independent claims 9, 12, 18, 26, 33, 40 and 43-45 and as pointed out by the applicant's remarks/arguments on pg. 17, lines 11-21; pg. 20, lines 18-25 to pg. 21, lines 1-11; pg. 22, lines 9-25 to pg. 23, line 1; pg. 24, lines 1-23; pg. 25, lines 22-25 to pg. 26, lines 1-13; and pg. 27, lines 7-25.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

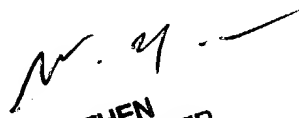
17. Any inquiry concerning this communication from the examiner should be directed to Qamrun Nahar whose telephone number is (703) 305-7699. The examiner can normally be reached on Mondays through Thursdays from 9:00 AM to 6:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the organization where this application or processing is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Qamrun Nahar
July 21, 2004


WEI Y. ZHEN
PRIMARY EXAMINER